



North Carolina Department of Environment and Natural Resources

Dexter Matthews, Director

Division of Waste Management

Beverly Eaves Perdue, Governor  
Dee Freeman, Secretary

February 19, 2009

Mr. Rick French  
Alexander County Manager  
621 Liledown Road  
Taylorsville, NC 28681

Re: Approval of Corrective Action Plan  
Alexander County Landfill, Permit #02-01

Dear Mr. French

The Solid Waste Section has reviewed the *September 2008 Alexander County Landfill Corrective Action Plan*, the *Revised January 2009 Alexander County Landfill Corrective Action Plan*, and *Revised February 2009 Alexander County Landfill Corrective Action Plan* submitted on behalf of Alexander County by Municipal Engineering. Pursuant to 15A NCAC 13B .1636, Alexander County selected a remedy to restore groundwater quality and effectively reduce the groundwater contamination at the facility. The Solid Waste Section approved the selected remedy for the Alexander County Landfill on February 2, 2009.

The Corrective Action Plan proposes implementation of the approved selected remedy:

- Monitored Natural Attenuation (MNA)
- Phytoremediation
- Enhanced Bioremediation
- Active Methane Extraction System
- Acquisition of Property

A comprehensive MNA baseline will be conducted at the facility consisting of four consecutive semiannual sampling events. A phytoremediation system will also be established near MW-24. In addition, enhanced bioremediation by the injection of a hydrogen release compound (HRC) near MW-16 and MW-26 and an active methane extraction system near MW-1B will also be enhancing the corrective action of the compounds impacting groundwater at the facility. Concurrently, Alexander County is in the process of acquiring adjacent property. As a result, the Solid Waste Section hereby approves the Corrective Action Plan for immediate implementation as outlined in the Corrective Action Plan. Implementation of the approved selected remedy shall now take place in accordance with 15A NCAC 13B .1637 and .0547. If the selected remedy proves to be ineffective, then the contingency plan outlined within the Corrective Action Plan shall be implemented. If you have any questions or concerns regarding this letter, please contact me at 919-508-8500. Thank you for your continued cooperation with this matter.

Sincerely,

Jaclynne Drummond  
Hydrogeologist  
Environmental Compliance  
Solid Waste Section

cc: Josh Mitchell, Alexander County Solid Waste  
Sean Patrick, MESCO  
Mark Poindexter, Field Operations Supervisor  
Deb Aja, Western District Supervisor  
CT Gerstall, Environmental Senior Specialist  
Larry Frost, Permitting Engineer  
Ellen Lorscheider, Planning and Programs Manager  
Solid Waste Section Central Files